

Technology Deployment Initiatives and Partnership Program

Request for Funding

FY 2002

FHWA Strategic Goal Area: Human and Natural Environment

Project Title: Evaluation of Polymer Soil Stabilizer for Dust Control

Problem Statement: Many Wildlife Refuges have poor surface and grade conditions which traffic must use seasonally requiring significant maintenance. In the Ridgefield Wildlife Refuge, two sites of differing conditions, one affecting the stability of bridge approaches and one affecting dust control on a canopied roadway have a soil surface. At the bridge the approaches are eroded and displaced by traffic adjacent to the rigid structure. A stabilizer is needed to hold the soil surface together and reduce the road grading by maintenance. At the canopied road the dust damages the plants and restricts visibility.

Proposal: After extensive investigation, a polymer called PX-300 looks promising as a soil stabilizer and dust palliative. The Project Manager will use PX-300 at each site and observe the difference from previous years and adjacent road segments. By observing and documenting the performance of the PX-300 compared to previous maintenance at these sites, the Ridgefield Wildlife Refuge staff will provide an evaluation of this product including benefits and costs.

Benefits: This evaluation will provide performance and cost comparisons of this polymer product to the typical untreated surface treatment and maintenance restoration.

Resources/Cost: TDIP funds for Canopy Road= \$16213, the WR maintenance will install as their contribution, the vendor provides an incentive price valued at \$4560.
TDIP funds for Bridge Approaches = \$2457, the WR maintenance will install as their contribution, the vendor provides an incentive price valued at \$691.
The WR will evaluate and report on this product over a two year period under a reimbursable agreement for \$1330
Total TDIP funds for FY 2002 $\$18,670 + \$1330 = \$20,000$.

Duration: The evaluation will be conducted over two seasons.

Organization/Method: The PX-300 will be included in an active project by Contract Modification, as selected by the Ridgefield Wildlife Refuge staff, in cooperation with WFLHD.

Submitter:

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Champion:

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